



## Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

---

---

A N  
I N D E X  
T O T H E  
Fifty-Eighth V O L U M E  
O F T H E  
*Philosophical Transactions.*

For the Y E A R 1768.

A.

*ABSORPTION*, carried on by lymphatics, p.  
222.

*Acorns*, preserved, by means of wax, in a state fit for vegetation, p. 75. Particulars of the method, p. 77. Its success, p. 78, 79.

*Aelian*, his account of the manner of catching eels in the rivers of Italy when frozen, p. 66.

*Aiton*, Mr. has raised oaklings from acorns covered with wax, p. 79.

*Africa*, Pinguins found there, p. 94. Differ from those of South America by the colour of the legs, p. 99.

*Agrigentum*, an ancient city of Sicily, p. 266. A medal probably struck in that town, ibid.

*Algiers*,

- Algiers*, method of inoculating the small-pox practised there, p. 129.
- Alps*, more easily crossed now than in the time of Annibal, p. 67.
- America*, fossil bones found there, p. 35. The Pinguins in the southern parts, p. 94, 95.
- Appian*, corrected by means of a medal, p. 257.
- Arabs*, thought to have been the inventors of inoculation, p. 129. Have practised that operation for time immemorial, p. 145.
- Armenians*, practise inoculation, p. 145.
- Areas*, curvilinearal, how computed, p. 175, 176. How compared, p. 177.
- Ashes*, from Mount Vesuvius showered all over Naples, and twenty leagues off at sea, p. 9.
- Astringent vegetable* in a peat-moss, p. 187.
- Astronomical observations* made on the islands of St. John and Cape Breton, p. 46. Made in different places on the last transit of Venus, p. 120. In several parts of Naples and Sicily, p. 197, 198. Corresponding ones at Greenwich, p. 199. By Messieurs Mason and Dixon in Pennsylvania, p. 274. 329. By Father Mayer at Swetzingen, p. 345.
- Attraction of mountains* probably alters the direction of gravity, p. 16.
- Auditory holes* wanting in several animals, p. 195.

## B.

- Barrington*, Honourable Daines, on the temperature of the air in Italy and several other countries, compared with what they were seventeen centuries ago, p. 58.
- Baffora*, Inoculation common there, p. 144.
- Bedouins* practise inoculation, p. 140, 142.
- Bengal*, Inoculation has been used in that country for a considerable time, p. 130.
- Benvenuti*, Dr. Joseph, of Lucca, his two medical observations, p. 189.

*Bergius*,

- Bergius*, Dr. Peter Jonas, description of the *Croton Spicatum*, p. 132.
- Bevis*, Dr. John, on the cold of 1740, compared with that of 1768, in London, p. 54.
- Birds*, their lacteal and lymphatic vessels described, p. 218.
- Black Sea*, see *Euxine*.
- Blue substance*, found in Scotland, p. 181. Mentioned imperfectly by other naturalists, *ibid.* Described by Mr. Douglas, p. 182, 183. Chemically analysed, p. 183—186. Its principal ingredients, p. 187. Probably found in all peat-mosses, *ibid.* Its usefulness as a water-colour, p. 187, 188. Affected by Alkalies, *ibid.*
- Bologna stone*, a kind of phosphorus, p. 9.
- Bones* of large animals found near the Ohio in America, p. 35. And probably the same with those which have been found in several other parts of the world, p. 40. And in particular with those that come from Siberia, p. 44. Adjudged to the elephant by Sloane, Gmelius, Buffon, and Daubenton, p. 35—41. Proved to belong to another animal, probably carnivorous, by Dr. Hunter, p. 37—42. Queries sent by his direction to America, concerning these bones, p. 39.
- Borlase*, Dr. William, his meteorological observations, made at Ludgvan in Cornwall, for 1767, p. 89, 90.
- Brandwine River*, in Pennsylvania, p. 326. Astronomical observations made in the Forks, *ibid.*
- Boscowich*, Father, his observations on the effects of the attraction of mountains, p. 273.
- Bridgewater*, in Somersetshire, meteorological observations made at that place, p. 87.
- Buffon*, Mr. his account of the fossil bones found in Siberia, and in North America, p. 35.
- Buying* the small-pox, a term used to signify inoculation in Barbary, p. 129. And at Aleppo, p. 140—143. And elsewhere, p. 147.

*Byres*, Mr. on the extraordinary heat at Rome in the summer of 1768, p. 336.

## C.

*Calabria*, its rivers frozen in the time of Virgil, p. 65.

*Cameleons*, ranged by authors under the generical name *Lacertia*, p. 192. Particular species described by Dr. Parsons, p. 193.

*Canton*, Mr. his method of producing prismatic colours from all the metals, by means of electricity, p. 73, 74. Phosphorus made by him, p. 337. Experiments made with it, p. 338.

*Carlyle*, Dr. his meteorological observations at Carlisle, for 1767, p. 83—86.

*Caul*, Carthaginian name for the island of Gozo, p. 238, 239.

*Caulum* stands for the isle of Gozo, in a MS. of Silius Italicus, p. 244.

*Chais*, Rev. Mr. account of the manner of inoculating the small-pox on the coast of Barbary, and at Bengal, p. 128.

*Chelsea garden*, 50 plants for 1767, p. 227.

*Chronology*, question of, solved by Mr. Horsfall, p. 100.

*Chyle*, transparent in birds, p. 217—221.

*Cohesion*, in different bodies occasions a difference in the impressions which they receive from hard ones striking upon them, p. 23.

*Cold*, probably, not so great at present in Italy and other places, as in the time of Ovid, Virgil, Ælian, &c. p. 58. Observed in London in the year 1740, and in 1767, by Dr. Bevis and the late Mr. Short, p. 54—57. Greatest of last year observed by Lord C. Cavendish, p. 152. At Greenwich, ibid. At Warsaw, p. 151. At Stockholm, p. 152.

*Colours*, formed by electrical explosions on metals, p. 70.

*Comet*,

*Comet*, seen at Louisburg in the island of Cape Breton, April 7, 1766, p. 50.

*Contacts* of Venus with the sun, observed at different times by different observers, p. 121. Cause of this difference, p. 122, 123.

*Croton Spicatum*, a plant of the Havannah, described by Dr. Bergius, p. 134.

## D.

*Daubenton*, Mr. judges the fossil thigh-bones, found in America, to be the same with those of the elephant, p. 42.

*Decimal fractions*, their use, p. 207. Recurring, p. 208. How to be computed, p. 209.

*Difference of longitude measured in Pennsylvania or New*

*Electricity*, its effect in producing coloured rings on the surface of pieces of metals, p. 69.

*Elephants*, their jaw-bones described and figured, p. 43.

*Ellis*, John, Esq; on the preserving acorns and other seeds in a state fit for vegetation, p. 74.

*Eruption* of Mount Vesuvius, of 1767, the 27th since that which destroyed Herculaneum, p. 2. Foretold by Mr. Hamilton, p. 4.

*Euxine*, or Black Sea, seen by Ovid covered with ice, p. 60. And described in the same manner by Strabo, p. 63. This appearance never observed by any of the modern travellers, *ibid.*

## F.

*Falkland* island, near the Streights of Magellan, is the place where Patagonian Penguins were found, p. 94.

*Farley*, Mr. James, his letter to Dr. Donald Monro, on his trials of the quassii root in fevers, p. 81, 82.

*Farr*, Dr. William, his meteorological observations at Plymouth, p. 136.

*Fish*, supposed not to have lymphatics, p. 222, 223. Have been found to have them, p. 224.

*Forster*, Mr. J. R. account of a new map of the river Volga, p. 214. His own measurements, p. 215.

*Fractions*. See *Decimal*.

## G.

*Gaulos*, ancient name which the Greeks gave to the isle of Gozo, p. 236.

*Georgia*, inoculation practised there, p. 145. And in what manner, p. 147.

*Goose*, lacteals and lymphatic vessels traced in this bird, p. 218.

*Gori*, his remark on an Etruscan character, p. 249.

*Gozo*,

*Gozo*, isle of, near Malta, occupied by the Phenicians in early times, p. 238. And afterwards by the Carthaginians, *ibid.* Medals of that island, p. 240—263.

*Gourdeens*, the inhabitants of Byland and Kittis, practise inoculation, p. 145.

*Greenwich*, some observations from 1762 to 1764, communicated by Mr. Maskelyne, p. 201. Transit of Venus, of 1769, observed, p. 355.

*Grinders*, fossil found in North America, different from those of elephants, p. 37.

## H.

*Halley*, Dr. his error in determining the places for observing the last transit of Venus, accounted for, p. 115, 116.

*Hamilton*, the Honourable William, on the eruption of Mount Vesuvius of 1767, p. 1. Makes no doubt but that the whole of it was formed like a little mountain, which he observed daily rising from the ancient crater, p. 3. Went up to the mountain, on seeing a new mouth opened, p. 5. His danger, p. 6.

*Havanna*, the *croton spicatum* found there, p. 134.

*Head*, extraordinary great one, p. 190.

*Heat*, extraordinary at Rome, p. 336.

*Hewson*, Mr. William, his account of the lymphatic system in birds, p. 217. Has discovered the lacteals in a turtle, p. 223. And the lymphatics in fish, p. 224.

*Holland*, Captain, his observations on the longitude and latitude of the islands of St. John and Cape Breton, p. 46.

*Horsefall*, Mr. James, his application of Dr. Saunderson's theorem for solving unlimited equations to a curious question in chronology, p. 100.

*Hudson*, Mr. William, his account of the Fifty Chelsea plants for 1767, p. 227.

*Hunter*,

*Hunter*, Mr. John, judged the fossil grinders found in North America not to have belonged to elephants, p. 37. Has discovered the lymphatics in the necks of fowls, p. 220.

*Hunter*, Dr. William, on the bones found near the river Ohio, in America, and supposed to be elephants bones, p. 34. His opinion about the use of the lymphatics, p. 223.

## I.

*Januarius* Saint, procession of this saint made at Naples during the last eruption, p. 9.

*Jaw-bones* of elephants different from those of the fossil skeletons found in North America, p. 42, 43.

*Jews* reject inoculation at Aleppo, p. 146. But practise it at Bagdat, Bassora, and Palestine, *ibid.*

*Inoculation*, in use on the coast of Barbary, p. 129. At Bengal, p. 130. At Aleppo, p. 140. In Arabia, p. 143. In Georgia, p. 144. In Armenia and Syria, *ibid.* In Wales, p. 148. By some Turks, p. 146. And by some Jews, *ibid.*

*Iron*, with an astringent substance, constitutes a natural blue earth, p. 187.

*Italy*, much colder in ancient times than now, p. 65.

## K.

*Kaul*, the Phenician name for the island of Gozo, p. 138.

## L.

*Lacerta*, a comprehensive genus of animals, p. 192.

*Lattéals*, why not easily seen in birds, p. 217. How discovered in them, p. 219. And in a turtle, p. 223.

*Lampos-*

*Lamponius.* See *Luponius.*

*Landen,* Mr. John, his new method of comparing curvilinear areas, p. 174.

*Latitude,* degrees of, measured from Sobieschitz through Vienna, Gratz, and Varasdin, p. 15, 16. Unequal, probably on account of the attraction of the mountains of Stiria, *ibid.* Measured in Pennsylvania, p. 274.

*Lava,* running over the crater of Mount Vesuvius in small streams, p. 3. Forced its way from different new openings, p. 5. Its swiftness, p. 6. Its depth 70 feet, and in some places its width of near two miles, p. 10. Its extent six miles, *ibid.*

*Lemery,* Dr. his error with respect to the phosphorus, p. 336.

*Liefganig,* Father Joseph, his measurement of three degrees of latitude under the meridian of Vienna, p. 15. His account is soon to be published, *ibid.*

*Light,* whether a fluid emitted, or motion communicated, p. 342, 343.

*Luponius,* a general of the Samnites in the Social war, p. 257.

*Lymphatic system,* supposed to be wanting in birds, p. 217. Discovered and described, p. 218. Method of demonstrating it, p. 223. Discovered in a turtle, and in fish, p. 224.

*Lymphatics* are the only absorbents, p. 223.

## M.

*Madoc Gwineth,* a Welshman, said to have planted a British colony in America, in 1170, p. 96, 97.

*Mallet,* Mr. of Upsal, is to go to Pello, in Lapland, to observe the next transit of Venus, p. 108.

*Malta,* Punic medals found in that island, p. 235.

*Maltese* medals, why so called, p. 235.

*Mammouth,* fabulous animal of Siberia, p. 35. Probably the same with the pseud-elephant supposed to have been in America, p. 45.

*Man,*

*Man*, surprisingly recovered from a fever, p. 189.

*Map of the Volga*, p. 214.

*Marbles* and precious stones, probably the produce of volcanos, p. 12.

*Mars*, when and how its menstrual parallax is to be observed, p. 162.

*Maryland*, limits between that province and Pennsylvania settled by Messieurs Mason and Dixon, p. 270.

*Maskeleyne*, Rev. Mr. his introduction to two papers of Mr. Smeaton, p. 154, 155. 'Communication of astronomical observations made at Greenwich in 1762, 1763, and 1764, p. 201. Introduction to the account of the measure of a degree in Pennsylvania, p. 270. His deduction of the length of the degree from the observations of Messieurs Mason and Dixon, p. 323. Observes the transit of Venus, 1769, p. 355.

*Mason*, Mr. employed to settle the limits between Maryland and Pennsylvania, p. 270. Measures a degree of latitude in that province, p. 274. Astronomical observations, p. 326.

*Mayer*, Father, his astronomical observations at Swetzingen, p. 345.

*Menstrual parallax* of the sun, what it is, p. 157. How to be determined from solar observations, p. 158, 159. Its quantity, p. 160. Must be more accurately deduced from the menstrual parallaxes of Mars and Venus, p. 162. The properest time for observing that of Mars, p. 163, 164. And of Venus, p. 105. May be determined within a 24th part of the whole, p. 168, 169.

*Mercury*, its transit over the sun, in 1743, observed at Naples, p. 199.

*Mesenteric glands*, are not to be found in birds, p. 221. Nor in turtles, p. 223.

*Meteorological observations*, made at Bridgewater, for 1767, p. 87, 88. At Mountsbay in Cornwall, p. 89. At Plymouth, p. 136.

*Method*

- Method* of observing the heavenly bodies out of the meridian, p. 170.  
*Miller*, Mr. Charles, his experiments on the sowing of wheat, p. 203.  
*Mithra*, the god, on Punic coins, p. 243, 244.  
*Monro*, Dr. Donald, on the good effects of the quassî root in some fevers, p. 80.  
*Moon*, its mean distance from the earth to be concluded from the transit of Venus, p. 32. Its relative gravity not sufficiently determined, p. 158, 159. Eclipsed in Pennsylvania, p. 331.  
*Motion*, its doctrine depends upon the computation of curvilinear areas, p. 174.  
*Mouffol*, inoculation publicly proclaimed there, p. 144..  
*Mountain*, little, formed within the ancient crater of Mount Vesuvius, p. 2. Its height of 185 French feet, p. 3. Drawings of it made from time to time by Mr. Hamilton, p. 3, and 14.  
*Mountsbay*, in Cornwall, meteorological observations made there, p. 89.  
*Murdoch*, Dr. Patrick, on the connexion between the parallaxes of sun and moon, their densities, and disturbing forces on the ocean, p. 24.

## N.

- Naples*, alarm in that city occasioned by the last eruption of Mount Vesuvius, p. 7. Topographical map of the kingdom preparing, p. 196.  
*Newton*, Sir Isaac, his discoveries on the colours of bodies, p. 68. His opinion on light, p. 339, 340.

## O.

- Oaks* raised from acorns preserved in wax, p. 79.

VOL. LVIII.

C C C

*Oaks*,

- Ohio*, skeletons found near that river in North America, p. 35.  
*Osiris*, worshiped by the Phœnicians in Malta, p. 262.  
*Ovid*, his description of the excessive cold on the Euxine sea, p. 59.

## P.

- Pœstum*, an ancient city in Lucania, p. 246. Its noble ruins, ibid. Etruscan medal of that city, p. 247. Struck about the time of the Social war, p. 250.  
*Parallax* of the sun determined from the observations of the last transit of Venus, p. 107. Menstrual parallax, what it is, p. 157.  
*Parallaxes* of sun and moon, their connexion, p. 29.  
*Parsons*, Dr. James, his account of a particular species of chameleon, p. 192.  
*Passeri*, Signior, his opinion about a medal of Pœstum confirmed, p. 246. His mistake in decyphering one of the letters, p. 248.  
*Pennant*, Thomas, Esq; on the different species of the birds called Penguins, p. 91.  
*Pennsylvania*, degree of latitude measured in that province, p. 272. Advantages of the situation, p. 273.  
*Percussion*, force of, whether proportioned to the velocities of bodies in motion, or to the squares of these velocities, p. 17. False reasonings of the respective supporters of these opinions, p. 18, 19. Experiments made in order to account for the diversity of appearances, from the nature and degree of cohesion, p. 20—23.  
*Phosphorus* imbibing light like the Bolonian stone, p. 337. Is not worn out by being exposed to the sun, p. 338. But is so by water, ibid. Imbikes light from the moon, p. 342.  
*Planman*, Professor Andrew, on the determination of the solar parallax, from the observations of the last transit of Venus,

Venus, p. 107. He is to go to observe the next transit at Cajaneburg, p. 108.

*Plymouth*, meteorological observations made there, p. 136. *Pinguin*, the Patagonian species described by Mr. Pennant, p. 91. Are only found in southern latitudes, p. 94. The lesser species described, p. 97. The red-footed penguin, p. 98. All these species are of a different genus from the bird called Penguin in the north parts of Europe and America, p. 99.

*Priestly*, Dr. Joseph, on rings consisting of all the prismatic colours, made by electrical explosions on pieces of metal, p. 68.

*Punic* character on Maltese medals, p. 235.

### Q.

*Quadrupeds*, the lacteals easily found in them, p. 217.

*Quassia* root, good in fevers, p. 80, 81.

### R.

*Rain-water*, probably contained within the bowels of Mount Vesuvius, p. 7. Discharged from Mount Etna, p. 8.

*Regiomontanus*, the inventor of decimal fractions, p. 207.

*Richardson*, Dr. William, on the force of percussion, p. 17. His experiments made with clay on that subject, p. 20—25.

*Robertson*, Mr. John, on the theory of circulating decimal fractions, p. 207.

*Rome*, great heats in that city, p. 336.

*Royal Society*, the Council of, ordered a degree of latitude to be measured in North America, p. 272.

*Russell*, Dr. Alexander, was informed at Aleppo, that inoculation was practised by some of the Bedouins, p. 140.

*Russell*, Dr. Patrick, his account of inoculation in Arabia, p. 142.

## S.

*Samnite Etruscan* medal explained, p. 253.

*Short*, Mr. James, on the cold of 1740 compared with that of 1768 in London, p. 55, 56.

*Siberian* bones, probably the same with those found in North America, p. 44, 45. Different from those of elephants, *ibid.*

*Smeaton*, Mr. John, on the menstrual parallax arising from the mutual gravitation of the earth and moon, p. 156. Description of a new method of observing the heavenly bodies out of the meridian, p. 170.

*Snoak* from Mount Vesuvius reached to the island of Caprea, 28 miles off, p. 5. Covered it entirely during the last eruption, and spread over Naples, p. 8. Shadow of it marked on the surface of the sea, p. 11.

Sticks thrust into the crevices of the lava, long after the eruption, took fire immediately, p. 10.

*Stockholm*, cold moderate last winter in that city, p. 152.

*Stones*, shot up from Mount Vesuvius to the height of 1000 feet, p. 3.

*Swetzingen*, astronomical observations made there, p. 345.

*Swinton*, the Rev. John, his interpretation of a Punic coin of the island of Gozo, p. 235. Of an Etruscan coin of Poëtum, p. 246. Of a denarius of the Veturiian family, p. 253. Of another Punic coin of Gozo, p. 261. Of an inedited Punic coin, p. 265.

## T.

*Thoracic duct*, double in birds, p. 218—220.

*Time* ought not to be taken into the account of the estimation of the force of percussion, p. 18.

*Tomos*,

- Tomes*, or *Tomi*, supposed to be the same with the modern *Temisware*, p. 59.  
*Topographical map of Naples and Sicily ordered to be made*, p. 196.  
*Tusks*, found in North America, have been judged to be real ivory, p. 41. Their form is somewhat different from the elephant's, p. 37.  
*Turtle*, lacteals and lymphatics discovered in that amphibious animal, p. 223, 224.  
*Turks*, some adopt inoculation, p. 144—146. But reject it in most parts of the Ottoman empire, *ibid.*

## V.

- Venus*, its menstrual parallax may be observed, p. 165. Its last transit observed at Naples, Malta, and Tarrentum, p. 200. That of 1769 expected to determine the parallax of the sun, p. 127. Observed at Greenwich, p. 355.  
*Virgil*, his account of the frozen rivers in Calabria, p. 65.  
*Unique*, what is meant by reasonings deduced from that principle, p. 26—31.  
*Volga*, river, imperfectly represented, p. 215. More accurately surveyed, and delineated in a new map, by Mr. Forster, p. 216.

## W.

- Wales*, inoculation known there in the last century, p. 148.  
*Wargentin*, Mr. Peter, on the temperature of the air at Stockholm during the last winter, p. 152.  
*Warsaw*,

*Warsaw*, the greatest cold in that city, p. 151. Declination of the needle there, *ibid.*

*Watson*, Dr. William, his account of Mr. Miller's experiments on the sowing of wheat, p. 203.

*Wheat*, common red, sown and divided by Mr. Charles Miller, p. 204. Surprising multiplication of one grain, p. 205.

*Wine*, in a state of congelation during the stay of Ovid at Tomos, p. 61. And described in the same state by Virgil, p. 62.

*Wolfe*, Dr. on the great cold at Warsaw this year, p. 151. And in 1740, *ibid.*

## Z.

*Zannoni*, Mr. Rizzi, his account of several astronomical observations made in the kingdom of Naples and Sicily, p. 196.

The End of the Fifty-Eighth VOLUME.